IN THE CLAIMS:

1. An apparatus, comprising:

a plurality of inner firewalls configured to operate within a personal computer, said personal computer being configured to operate in a network of computers,

said personal computer including at least one microprocessor and at least two memory components,

said plurality of inner firewalls being configured to deny access to at least a first memory component of said personal computer by another computer through a network connection with said personal computer during a shared operation, and

said plurality of inner firewalls being configured to allow access to at least a second memory component of said personal computer by said another computer through said network connection with said personal computer during said shared operation.

2. The apparatus of claim 1, wherein at least one of a hardware component, software file, or firmware file has its own inner firewall.

3. The apparatus of claim 1, wherein at least two of a hardware component, a software file, and a firmware file is grouped exclusively together inside an inner firewall.

4. The apparatus of claim 1, wherein at least one of said inner firewalls is substantially a hardware component.

5. The apparatus of claim 1, wherein said personal computer is configured for a dense wave division multiplexing (DWDM) network connection.

6. The apparatus of claim 1, wherein said personal computer is configured for a wireless connection.

7. The apparatus of claim 6, wherein said wireless connection is to said network.

8. The apparatus of claim 1, wherein an operating system includes a number of independent components, each component having its own firewall.

9. The apparatus of claim 1, wherein a part of an operating system includes a number of independent components, each component having its own firewall.

10. The apparatus of claim 1, wherein an application program includes a number of independent components, each component having its own firewall.

11. The apparatus of claim 1, wherein a part of an application program includes a number of independent components, each component having its own firewall.

12. The apparatus of claim 1, wherein all files of a network-accessible portion of volatile memory of said personal computer are erased when control of said network-accessible portion is transferred between said network and a user of said personal computer, said network-accessible portion being located outside at least one of said inner firewalls.

13. The apparatus of claim 12, wherein said file erasure is accomplished by one of power interruption and overwriting.

14. The apparatus of claim of 1, wherein all files in a network-accessible portion of a non-volatile memory of said personal computer are erased when control of said network-accessible portion is transferred between said network and a user of said personal computer, said network-accessible portion being located outside at least one of said inner firewalls.

15. The apparatus of claim 14, wherein said non-volatile memory is one of a magnetic random access memory (MRAM) or ovonic unified memory microchip.

16. The apparatus of claim 1, wherein said first memory component includes a BIOS.

17. The apparatus of claim 1, wherein said personal computer is substantially contained in a respective single microchip.

18. The apparatus of claim 1, wherein said personal computer is substantially contained in a single respective microchip having a plurality of microprocessors.

19. The apparatus of claim 1, wherein said network of computers includes an Internet.

20. The apparatus of claim 1, wherein said network of computers includes a World Wide Web.

21. The apparatus of claim 1, wherein said network connection includes an optical fiber connection substantially directly to said personal computer.

22. The apparatus of claim 1, wherein said first memory component is a flash memory device.

23. The apparatus of claim 1, wherein said second memory component is a flash memory device.

24. The apparatus of claim 1, wherein said second memory component is a random access memory (RAM) device.

25. The apparatus of claim 1, wherein said second memory component is a hard drive device.

26. The apparatus of claim 1, wherein said second memory component is a read-only compact disk drive (CD-ROM) device.

27. The apparatus of claim 1, wherein said second memory component is a read-only digital video disk drive (DVD) device.

28. The apparatus of claim 1, wherein said second memory component is volatile memory.

29. The apparatus of claim 1, wherein said second memory component is non-volatile memory.

30. The apparatus of claim 29, wherein said non-volatile memory is one of a magnetic random access memory (MRAM) and ovonic memory.

31. The apparatus of claim 1, wherein said first memory component is non-volatile memory.

32. The apparatus of claim 1, wherein said second memory component duplicates a first memory component.

33. The apparatus of claim 1, wherein said first memory component is read and write memory.

34. The apparatus of claim 1, wherein said second memory component is read-only memory.

35. An apparatus, comprising:

a plurality of inner firewalls configured to operate within a personal computer, said personal computer being configured to operate in a network of computers,

said personal computer including at least two microprocessors,

said plurality of inner firewalls being configured to deny access to at least a first microprocessor of said personal computer by another computer through a network connection with said personal computer during a shared operation, and

said plurality of inner firewalls being configured to allow access to at least a second microprocessor of said personal computer by said another computer through said network connection with said personal computer during said shared operation.

36. An apparatus, comprising:

a plurality of inner firewalls configured to operate within a personal computer,

said personal computer being configured to operate in a network of computers,

said personal computer including at least two microprocessors and at least two memory components,

said plurality of inner firewalls being configured to deny access to at least a first microprocessor and at least a first memory component of said personal computer by another computer through a network connection with said personal computer during a shared operation, and

said plurality of inner firewalls being configured to allow access to at least a second microprocessor and at least a second memory component of said personal computer by said another computer through said network connection with said personal computer during said shared operation.